

CCTTTCCATAGAGAACAAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAATTGGCCCAGTGTTCCTCCT  
 CATGGTAATCTCATGCCCTCTACAATCTACATCCAGTACACTCTCAGGTCAACATCAGAGTAAGGATATGGAGCCTA  
 GGATCCCTTCTTTAAACAACCTGGAGACGTAATAACCCCTCTTTATTAATGCATAGAATTAAAGATTTCCATAGGGATAT  
 TTAACAGAAAACCACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTGAGGT  
 AGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAAATTTTGTAGGTACTGACAAGATGGAAGTC  
 AACATTTCAATGCCCTCTGAATGGATCAGAAGTTGTGTTTTATGATTCTACCACCTCAAGTGTTCATGGATCCTCT  
 CATTAGTGGTTCCTTTATAACCTTTGTCCTCGGTGTTCAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTC  
 GATGGCACACACTGTGACCCTGTCTCTTATCTGAACCTTGGCTTTGAGTGATTTATCTTTTCATGGTTACTCTACCA  
 CTTACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTTGGTTGGTTTCTTTGCAAATTAGTTCACATAATTG  
 CAAACATAAACCTTTTTTGTAAATATCTTCCCTAATCACTCTTATTGCCATGGATCGCTGTATTTGTGTCTCTGTGCC  
 AGTATGGTCTCAGAATCACCCTGAGTGTGAGTCTGGCCAGAAAAGTGGTTCCTGGAGCTTGGATATTTGTCTGTCTG  
 CTTACCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTATATCTAAATTTG  
 AATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTGCTGCCACAGCTTCAGGAATCATCAATTT  
 CATTATTGGATTTCAGCATGCCCATGTCTTTTATTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGA  
 GGCTTTTGTGAATTCAGTCTCTCTTTACGTGTCTCAGTGTGTAGCGATTTCCCTTCTTTGTCTGTTGGTTCCTCTT  
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTTCATATGTTGGTTAACCCAGC  
 AAATACCTTGGCTTCCCTTTAACAGCTGCCTCAACCCAATACTCTATGTATTCCCTGGGTTCAGGAATTCAGAGACAGA  
 CTAATCTATTCTCTGTATGCCAGTCTAGAGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCTCTGA  
 GCACTGACACAGACAGCAACTTGTCTTCATGAACCTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGCCAAT  
 GGGATTTTTTTTTTCCCTACCCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGAAATTTCTGAGTATAACTATA  
 GAATCTCTCTGATTCTGATTGGAAGACAGAAGT (SEQ ID NO:1)

MEVNISMPLNGSEVVFYDSTTSSVLWILSLVVLFITFVLGVLGNGLVIWVAGFQMAHTVTTVSYLNLALSDLSFMV  
 TLPLHIISMVMRGKWLFGWFLCKLVHIIANINLFSIFLITLIAMDRICVLCPVWSQNHRVTVSLARKVVLGAWIF  
 ALLLTLPHFLFLTTRDARGDVYCIKSFESWVATSEEQLKMSVIAATASGIINFIIGFSMPMSFIAICYGLMAAKI  
 CRRGFVNSSRPLRVLTAVAISFFVCWFPFQLIMLLGNIFNNETLSIIHMLVNPANTLASFNCLNPILYVFLGQEF  
 RDRLIYSLYASLERALRED (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

**bold** = sequence flanking Neo insert in targeting construct

CCTTTCCATAGAGAACAAAGAACTAAAGAAATTCGTGACAAATGGACAATATAAATTGGC  
 CCAGTGTTCTCCTCCTCATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTC  
 AGGTCAACATCAGAGTAAGGATATGGAGCCTAGGATCCCTTCTTAAACAACCTGGAGACGT  
 AATAACCTCTTTTATTAATGCATAGAATTAAGATTTCCATAGGGATATTTAACAGAAAAC  
 CACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTG  
 AGGTAGCGGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAAATTTTTAG  
 GTACTGACAAGATGGAAGTCAACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTT  
 ATGATTCCTACCACCTCAAGTGTTCTATGGATCCTCTCATTAGTGGTCTCTTTTATAACCT  
 TTGTCCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCAGATGGCAC  
 ACACCTGTGACCACTGTCTCTTATCTGAACTTGGCTTTGAGTGATTTATCTTTTCATGGTTA  
 CTCTACCACTTCACATCATCTCAATGGTTCATGAGAGGAAAATGGCTTTTTGGTTGGTTTC  
 TTTGCAAATTAGTTCACATAATTGCAAACATAAACCTTTTTGTAAGTATCTTCCTAATCA  
 CTCTTATTGCCATGGATCGCTGTATTTGTGTCCTGTGCCAGTATGGTCTCAGAATCACC  
 GAACTGTGAGTCTGGCCAGAAAAGTGGTCTTGGAGCTTGGATATTTGCTCTGCTGCTTA  
 CCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTA  
 TATCTAAATTTGAATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGCTGTATTG  
 CTGCCACAGCTTCAGGAATCATCAATTTTCATTATTGGATTTCAGCATGCCCATGTCTTTCA  
 TTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGAGGCTTTGTGAATTCCA  
 GTCGTCTTTTACGTGTCCTCACTGCTGTAGCGATTTTCTTTCTTTGTCTGTTGGTTCCCTT  
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTCATA  
 TGTGTTGGTTAACCCAGCAAATACCTTGGCTTCCTTTAACAGCTGCCTCAACCCAATACTCT  
 ATGTATTCCTGGGTCAGGAATTCAGAGACAGACTAATCTATTCTCTGTATGCCAGTCTAG  
 AGAGGGCCCTGAGGGAAGACTAGTCTTGGATGGAAAATTCAGTCTGAGCACTGACACAG  
 ACAGCAACTTGTCTTCATGAACTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGC  
 CAATGGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGA  
 AATTTCTGAGTATAACTATAGAATCTCTCTGATTCTGATTTGGAAGACAGAAGT

FIGURE 2A

10026937.122101

Gene Sequence  
Structure \*

399 bp

Sequence Deleted

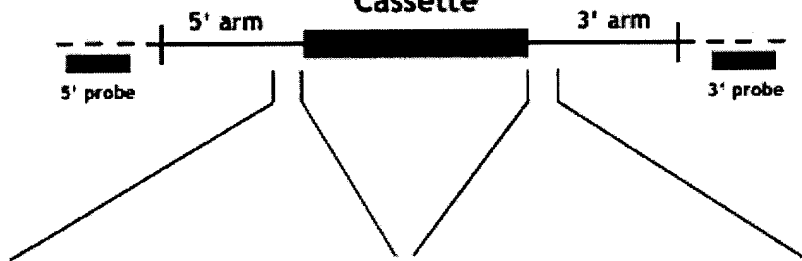
549 bp

Size of CDS: 1554 bp

Targeting Vector\*  
(genomic sequence)

LacZ-Neo  
Cassette

Arm Length:  
5': 0.3 kb  
3': 6 kb



——— Targeting Vector  
- - - - Endogenous Locus

\* Not drawn to scale

5' >CATAGAATTAAGATTTCATA  
GGGATATTTAACAGAAAACCACAT  
TTACTCTATTACCCCTAGAATAGG  
TACTTTTTAAAATAGAAGGTGATG  
TGGGATCTGAGGTAAGGCGGGACA  
AGATGGAGACACATCTGAAAAATA  
GTTATTGTTGAAAATTTTAGGTG  
CTGACAAGATGGAAGTCAACATTT  
CAATGCCTCTG<3'  
(SEQ ID NO:3)

5' >CCACTGTCTCTTATCTGAACT  
TGGCTTTGAGTGATTTATCTTTCA  
TGGCTACTCTACCACTTCACATCA  
TCTCAATGGTCATGAGAGGAAAAT  
GGCTTTTTGGTTGGTTTCTTTGCA  
AATTAGTTCACATAATTGCAAACA  
TAAACCTTTTTGTAAGTATCTTCC  
TAATCACTCTTATGCCATGGATC  
GCTGTATTTGT<3'  
(SEQ ID NO:4)

FIGURE 2B

# Open Field Summary Data - Percent in Central

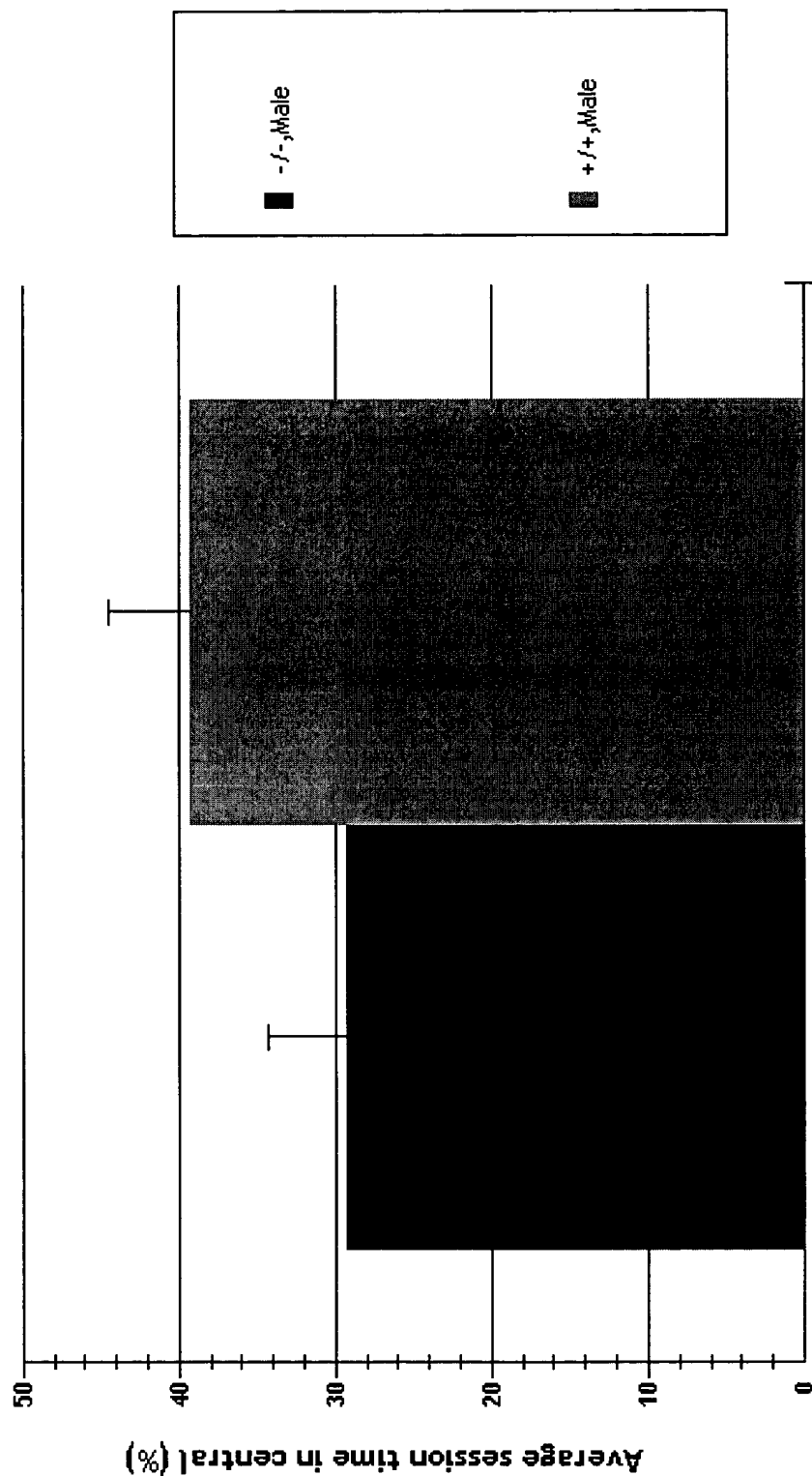


FIGURE 3

# Rotarod

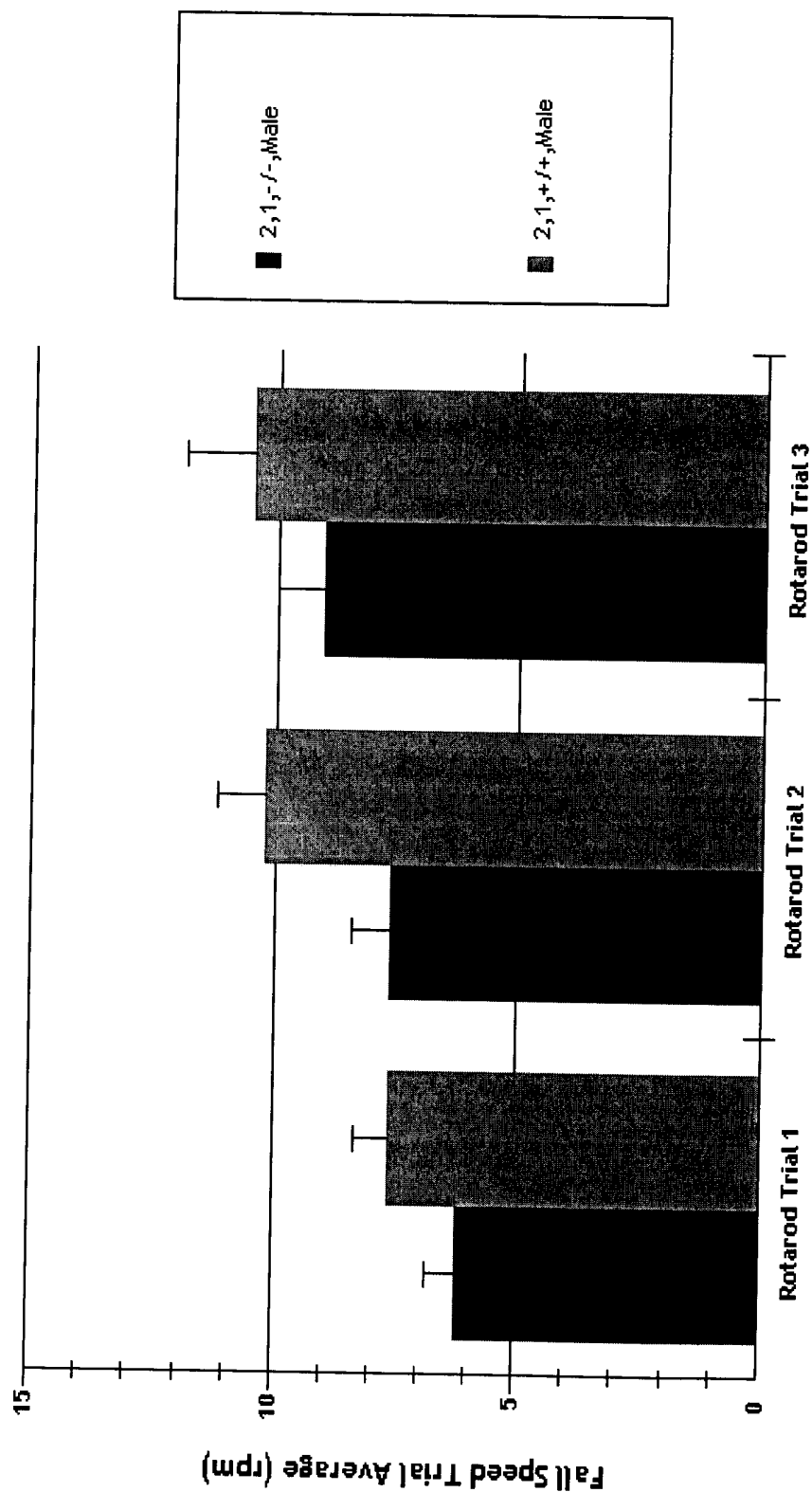


FIGURE 4

# Metrazol

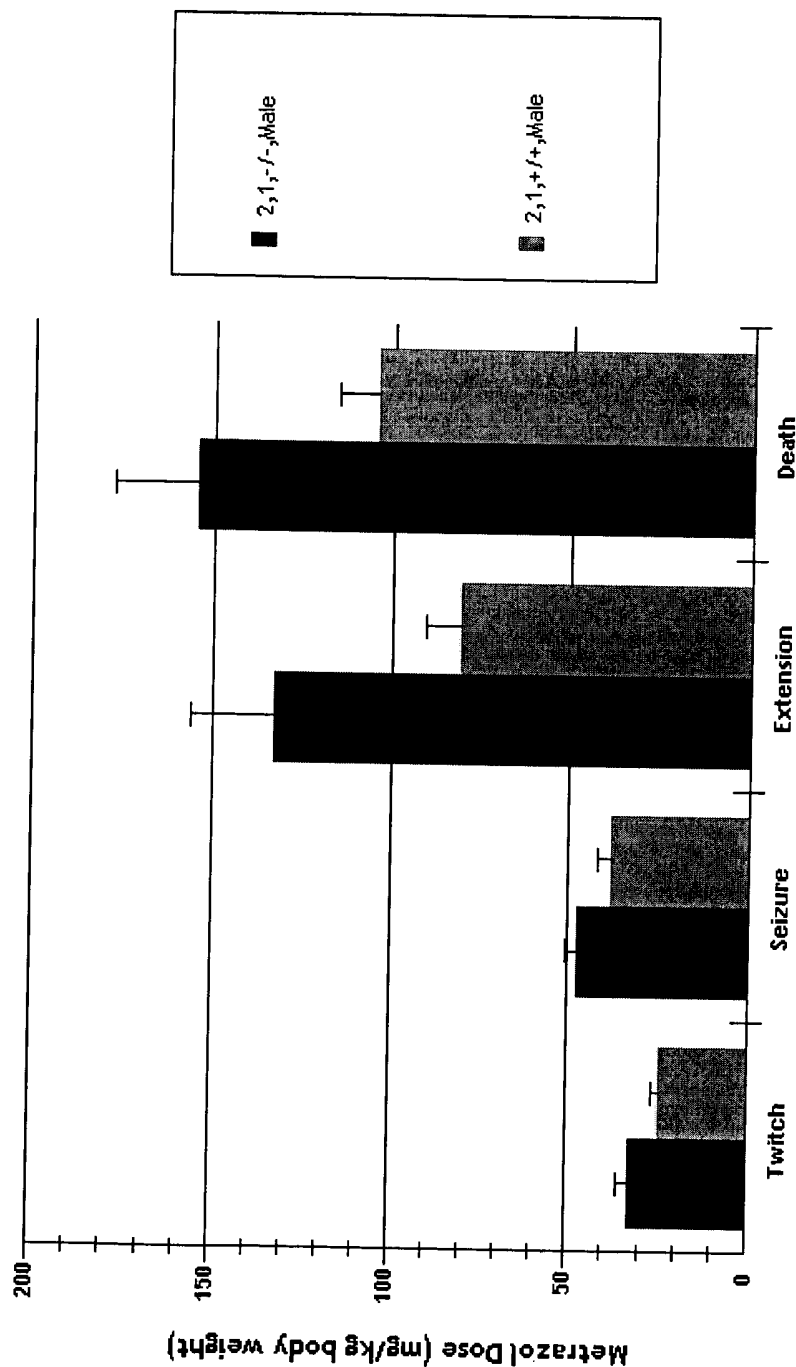


FIGURE 5